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## CASEY COUNTY

### (Casey County Water Service Area Map)

- Estimated 1999 population of 14,500--65% on public water
- Estimated 2020 population of 14,300--74% on public water
- 320 miles of water lines, with plans for 45 additional miles
- Estimated funding needs for public water 2000-2005--\$1,467,000
- Estimated funding needs for public water 2006-2020--\$935,000

Casey County had an estimated population of 14,484 (5,957 households) in 1999 with a projected population of 14,291 (6,182 households) in 2020. Public water is provided to about 65 percent of the county's residents. In areas of the county not served by public water, about 70 percent of the households rely on private domestic wells and 30 percent of the households rely on other sources. About 530 customers will be added to public water service through new line extensions in 2000-2020.

#### *Estimated Costs - Proposed Projects, 2000-2005*

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in \$1000	in \$1000	in \$1000	in \$1000	in \$1000	in \$1000
CASEY								-
Casey Co. W/D	28.2	336	1,467					1,467
Total	28.2	336	1,467					1,467

#### *Estimated Costs - Proposed Projects, 2006-2020*

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in \$1000	in \$1000	in \$1000	in \$1000	in \$1000	in \$1000
CASEY								-
Casey Co. W/D	16.9	194	510				425	935
Total	16.9	194	510				425	935

### PUBLIC WATER SYSTEMS

Casey County has 2 public water systems: 1 municipality, Liberty Water Works; and 1 water district, East Casey County Water District. The eastern part of the county is also served by Eubank Water System.

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# WATER SERVICE AREAS

## CASEY COUNTY

### Kentucky

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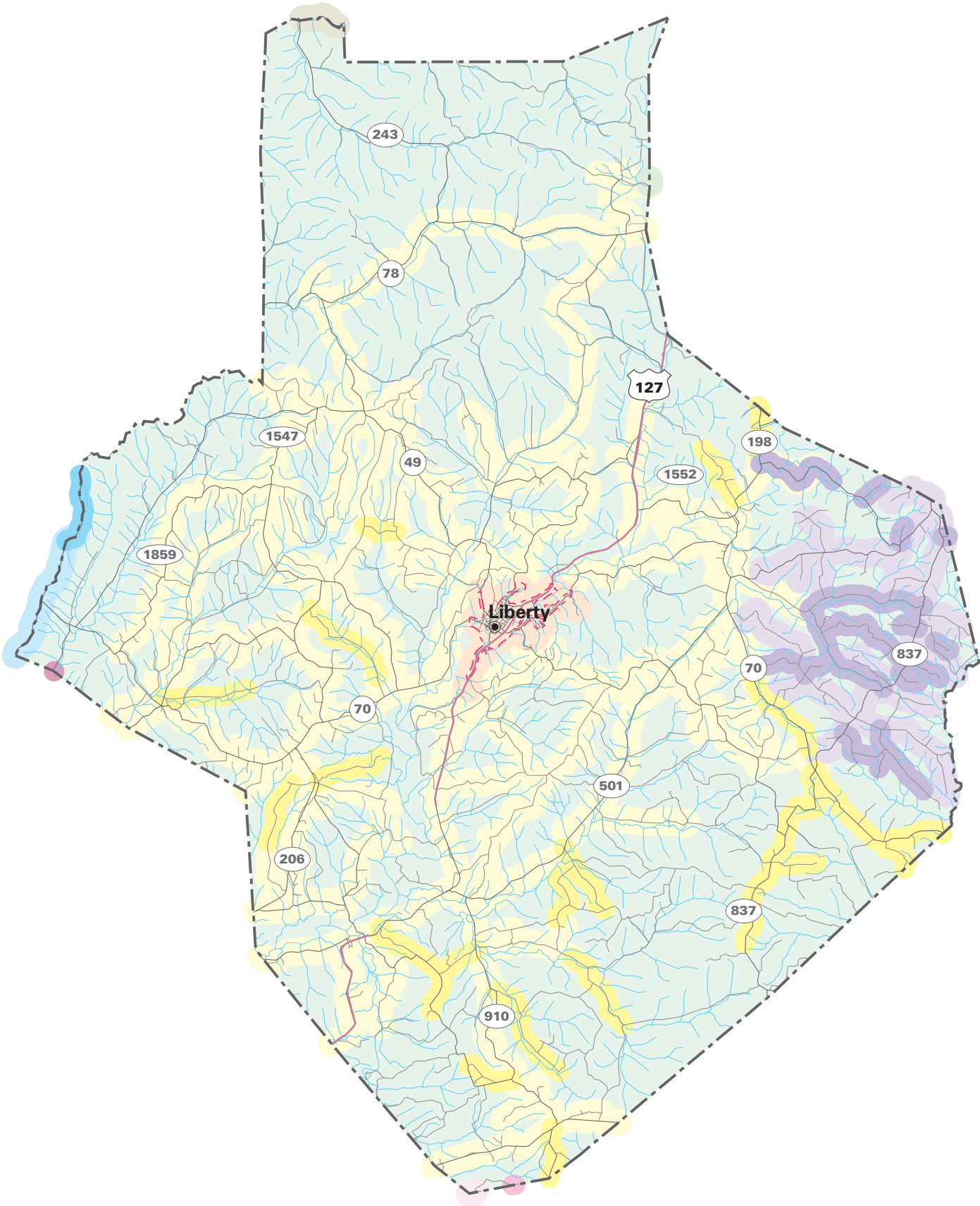
Bob Arnold, Chairman  
Lawrence Wetherby, Executive Director







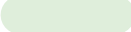
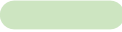


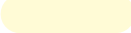

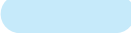



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WATER SERVICE STATUS BY OWNER		
EXISTING SERVICE AREA	PROPOSED SERVICE AREA	
		RUSSELL SPRINGS WATER AND SEWER SYSTEM
		PARKSVILLE WATER DISTRICT
		LIBERTY WATER WORKS
		HUSTONVILLE WATER WORKS
		EUBANK WATER DISTRICT
		EAST CASEY COUNTY WATER DISTRICT
		CAMPBELLVILLE MUNICIPAL WATER SYSTEM
		ADAIR COUNTY WATER DISTRICT



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**EAST CASEY COUNTY WATER DISTRICT**

PWSID: ..... 0230556  
System Type: ..... COMMUNITY  
Owner Type: ..... WATER DISTRICT  
Surface Source:  
Purchase Source:  
Well Source:  
Sells Water to:  
Treatment Plant Capacity (MGD): ..... 0.00  
Percent Daily Average Production: ..... 0.00  
Total Tank Storage Capacity (gallons): ..... 200,000.00  
Total Service Connections: ..... 2,100.00  
Number of Employees: ..... 5.00  
Treatment Operator Class: ..... 2D  
Distribution Operator Class:  
Customer Rate for 1,000 Gallons: ..... 5.34  
O/M costs 1997: ..... 421,579.00  
O/M costs per Service Connection: ..... 197.92  
Net Revenue 1997: ..... 94,413.00  
Total Water Produced 1997 (gallons): ..... 0.00  
Water Sold 1997 (gallons): ..... 98,869,000.00  
Unaccounted-for Water 1997 (%): ..... 19.37

**LIBERTY WATER WORKS**

PWSID: ..... 0230987  
System Type: ..... COMMUNITY  
Owner Type: ..... MUNICIPAL  
Surface Source: ..... LIBERTY WATER WORKS  
Purchase Source:  
Well Source:  
Sells Water to:  
Treatment Plant Capacity (MGD): ..... 1.30  
Percent Daily Average Production: ..... 54.00  
Total Tank Storage Capacity (gallons): ..... 200,000.00  
Total Service Connections: ..... 990.00  
Number of Employees: ..... 10.00  
Treatment Operator Class: ..... 2D  
Distribution Operator Class: ..... 3A  
Customer Rate for 1,000 Gallons: ..... Not available  
O/M costs 1997: ..... Not available  
O/M costs per Service Connection: ..... Not available  
Net Revenue 1997: ..... Not available  
Total Water Produced 1997 (gallons): ..... Not available  
Water Sold 1997 (gallons): ..... Not available  
Unaccounted-for Water 1997 (%): ..... Not available

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## **PRIVATE DOMESTIC SYSTEMS**

About 5,100 people in Casey County rely on private domestic water supplies: 3,550 on wells, and 1,550 on other sources.

In the uplands of far eastern Casey County about three-fourth of the wells drilled yield enough water for a domestic supply. In the rest of the county very few wells yield enough water for a domestic supply except in a few lowland areas bordering streams where yields are sufficient for a few wells to meet the supply needs for domestic use. Due to perched water bodies with limited recharge zones many wells in this area go dry in late summer and fall.

Numerous small springs and seeps are found throughout the county. Most discharge from small solution openings and joints in limestone or siltstone and are supported by shale layers. Flows are as much as 20 gpm, but most have minimum flows of less than 1 gpm.

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